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Substitute for form 1449/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	09/933,972	
			Filing Date	2001-08-20	
			First Named Inventor	Hawkes, Philip et al.	
			Art Unit	2439	
			Examiner Name	IMITOSKI, MICHAEL J	
Sheet	1	of	15	Attorney Docket No: 010497	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	001	US4163255	07-31-1979	Pires; H. George et al.	
	002	US4750167	06-07-1988	Meyer; Charles S. et al.	
	003	US4870408	09-26-1989	Zdunek; Kenneth J. et al.	
	004	US4881263	11-14-1989	Herbison; B. J. et al.	
	005	US4901307	02-13-1990	Gilhausen et al.	
	006	US4924513	05-08-1990	Herbison; B. J. et al.	
	007	US5103459	04-07-1992	Gilhausen et al.	
	008	US5117457	05-26-1992	Comerford; Liam D. et al.	
	009	US5136586	08-04-1992	Greenblatt; Richard D. et al.	
	010	US5159447	10-27-1992	Haskell; Barin G. et al.	
	011	US5253294	10-12-1993	Maurer; Robert E. et al.	
	012	US5257396	10-26-1993	Auld, Jr et al.	
	013	US5325357	06-28-1994	Kimoto; Atsushi et al.	
	014	US5351087	09-27-1994	Christopher; Todd J. et al.	
	015	US5363379	11-08-1994	Ecklenrode; Thomas et al.	
	016	US5369784	11-29-1994	Nelson et al.	
	017	US5371794	12-06-1994	Diffie; Whitfield et al.	
	018	US5412655	05-02-1995	Yamada; Kenji et al.	
	019	US5421006	05-30-1995	Jablon; David P. et al.	
	020	US5481613	01-02-1996	Ford; Warwick S. et al.	
	021	US5504773	04-02-1996	Padovani et al.	

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	022	US5513245	04-30-1996	Mizikovsky, Semyon et al.	
	023	US5515441	05-07-1996	Faucher et al.	
	024	US5686963	11-11-1997	Uz; K. Metin et al.	
	025	US5708961	01-13-1998	Hylton; Denny L. et al.	
	026	US5751707	05-12-1998	Voit; Eric A. et al.	
	027	US5751725	05-12-1998	Chen et al.	
	028	US5758291	05-26-1998	Grube et al.	
	029	US5774496	06-30-1998	Butler et al.	
	030	US5778187	07-07-1998	Monteiro; Antonio M. et al.	
	031	US5850444	12-15-1998	Rune et al.	
	032	US5850445	12-15-1998	Chan; Yick Man et al.	
	033	US5878141	03-02-1999	Daly; Michael T. et al.	
	034	US5909491	06-01-1999	Luo; Tie et al.	
	035	US5940507	08-17-1999	Cane; David et al.	
	036	US5946316	08-31-1999	Chen; Xiaoliang et al.	
	037	US5956404	09-21-1999	Schneider; Bruce et al.	
	038	US5970072	10-19-1999	Gammethaler, Jr.; Robert Scott et al.	
	039	US5991407	11-23-1999	Murto; Juhani et al.	
	040	US6021124	02-01-2000	Haartsen; Jacobus C. et al.	
	041	US6026165	02-15-2000	Marino; Francis C. et al.	
	042	US6044154	03-28-2000	Kelly; Tadhg et al.	

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		Number-Kind Code ² (if known)			
	043	US6047395	04-04-2000	Zook; Christopher P. et al.	
	044	US6052812	04-18-2000	Chen; Zongbo et al.	
	045	US6055236	04-25-2000	Nessett; Danny M. et al.	
	046	US6055314	04-25-2000	Spies et al.	
	047	US6097817	08-01-2000	Bilgic et al.	
	048	US6108424	08-22-2000	Pitiot; Yann et al.	
	049	US6128389	10-03-2000	Chan; Yick Man et al.	
	050	US6148010	11-14-2000	Sutton et al.	
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	052	US6199161	03-06-2001	Ahvenainen; Jouko et al.	
	053	US6233234	05-15-2001	Curry; James E. et al.	
	054	US6240091	05-29-2001	Ginzboorg; Philip et al.	
	055	US6253069	06-26-2001	Mankovitz; Roy J. et al.	
	056	US6253326	06-26-2001	Lincke; Scott D. et al.	
	057	US6266420	07-24-2001	Langford; Glenn C. et al.	
	058	US6363480	03-26-2002	Perlman et al.	
	059	US6373829	04-16-2002	Vilmur; Richard Joseph et al.	
	060	US6385200	05-07-2002	Erami; Akihisa et al.	
	061	US6385461	05-07-2002	Raith; Alex Krister et al.	
	062	US6424717	07-23-2002	Pinder et al.	
	063	US6424947	07-23-2002	Tsuria; Yossef et al.	

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		Number-Kind Code ^{2(a) (known)}			
	064	US6449491	09-10-2002	Dailey; Timothy E. et al.	
	065	US6463155	10-08-2002	Akiyama; Koichiro et al.	
	066	US6477377	11-05-2002	Backstrom; Olof Tomas et al.	
	067	US6490259	12-03-2002	Agrawal; Prathima et al.	
	068	US6538996	03-25-2003	West; Julian Wray et al.	
	069	US6560206	05-06-2003	Naden; James M et al.	
	070	US6564211	05-13-2003	Andreev; Alexander E. et al.	
	071	US6574211	06-03-2003	Padovani et al.	
	072	US6598203	07-22-2003	Tang; Benjamin et al.	
	073	US6600745	07-29-2003	Chopping; Geoffrey et al.	
	074	US6601068	07-29-2003	Park et al.	
	075	US6603857	08-05-2003	Batten-Carew; Mark Christopher et al.	
	076	US6606706	08-12-2003	Li; Yunzhou et al.	
	077	US6633979	10-14-2003	Smeets; Bernhard Jan Marie et al.	
	078	US6647000	11-11-2003	Persson; Bengt et al.	
	079	US6680920	01-20-2004	Wan; Yongbing et al.	
	080	US6704368	03-09-2004	Nefedov; Nikolai et al.	
	081	US6704369	03-09-2004	Kawasaki; Naoto et al.	
	082	US6725459	04-20-2004	Bacon; Kinney C. et al.	

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		Number-Kind Code ^{2(i) (known)}			
	083	US6735177	05-11-2004	Suzuki; Mitsutaka et al.	
	084	US6751218	06-15-2004	Hagirahim; Hassan et al.	
	085	US6760752	07-06-2004	Liu; Gary G. et al.	
	086	US6763025	07-13-2004	Leatherbury; Ryan M. et al.	
	087	US6766024	07-20-2004	Rix et al.	
	088	US6781999	08-24-2004	Eyuboglu; M. Vedat et al.	
	089	US6788681	09-07-2004	Hurren; Alan J. et al.	
	090	US6798791	09-28-2004	Riazi; Habib et al.	
	091	US6801508	10-05-2004	Lim; Byung Keun et al.	
	092	US6870923	03-22-2005	Yi et al.	
	093	US6879573	04-12-2005	Huo; David D. et al.	
	094	US6879690	04-12-2005	Faccin; Stefano et al.	
	095	US6882850	04-19-2005	McConnell et al.	
	096	US6885874	04-26-2005	Grube; Gary W. et al.	
	097	US6895216	05-17-2005	Sato; Hijin et al.	
	098	US6898285	05-24-2005	Hutchings et al.	
	099	US6915272	07-05-2005	Ziliacus; Martin et al.	
	100	US6918035	07-12-2005	Patel; Sarvar et al.	
	101	US6925285	08-02-2005	Kim; Jae-Geun et al.	
	102	US6990680	01-24-2006	Wugofski; Theodore D. et al.	
	103	US7016351	03-21-2006	Farinacci; Dino et al.	

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	104	US7036023	04-25-2006	Fries; Robert M. et al.	
	105	US7039180	05-02-2006	Issaa; Michael A. et al.	
	106	US7046672	05-16-2006	Liao; HongBin et al.	
	107	US7058809	06-06-2006	White; Mark Andrew George et al.	
	108	US7072865	07-04-2006	Akiyama; Koichiro et al.	
	109	US7079502	07-18-2006	Yamano; Shigeki et al.	
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	112	US7197072	03-27-2007	Hsu; Kuo-Wei et al.	
	113	US7200230	04-03-2007	Knauff; Christopher L. et al.	
	114	US7209459	04-24-2007	Kangas; Antti et al.	
	115	US7215775	05-08-2007	Noguchi; Tetsuya et al.	
	116	US7239704	07-03-2007	Maillard et al.	
	117	US7266687	09-04-2007	Sowa; Hans Christopher et al.	
	118	US7278164	10-02-2007	Raiz; Leonid et al.	
	119	US7280660	10-09-2007	Saló; Juha et al.	
	120	US7290063	10-30-2007	Kalliokulju; Juha et al.	
	121	US7352868	04-01-2008	Hawkes et al.	
	122	US7376963	05-20-2008	Kato; Taku et al.	
	123	USRE33189	03-27-1990	Lee et al.	

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	125	US20010004761	06-21-2001	Zehavi, Ephraim; et al.	
	126	US20020080887	06-27-2002	Jeong, Young-Ho et al.	
	127	US20020091931	07-11-2002	Quick, Roy Franklin JR et al.	
	128	US20020152384	10-17-2002	Shelest, Art et al.	
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	130	US20020169724	11-14-2002	Moroney, Paul; et al.	
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	132	US20030035389	02-20-2003	Chen, Tao et al.	
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	141	US20040019787	01-29-2004	Shibata, Norimasa et al.	
	142	US20040022216	02-05-2004	Shi, Guangming Carl; et al.	
	143	US20040095515	05-20-2004	Tajima, Teruo; et al.	

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Substitute for form 1449/PTO				<i>Complete if Known</i> Application Number 09/933,972 Filing Date 2001-08-20 First Named Inventor Hawkes, Philip et al. Art Unit 2439 Examiner Name SIMITOSKI, MICHAEL J	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)					
Sheet	8	of	15	Attorney Docket No: 010497	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	144	US20040101138	05-27-2004	Revital, Dan et al.	
	145	US20040120527	06-24-2004	Hawkes, Philip Michael et al.	
	146	US20040131185	07-08-2004	Kakumer, Anil K.; et al.	
	147	US20040132402	07-08-2004	Agashe, Parag A.; et al.	
	148	US20040202329	10-14-2004	Jung, Jung-Soo; et al.	
	149	US20040266391	12-30-2004	Hafren, Jonas; et al.	
	150	US20050048963	03-03-2005	Kubler, Joseph J.; et al.	
	151	US20050055551	03-10-2005	Becker, Claudia; et al.	
	152	US20050108563	05-19-2005	Becker, Claudia; et al.	
	153	US20050144550	06-30-2005	Jeon, Ik Beom; et al.	
	154	US20050271210	12-08-2005	Soppera, Andrea; et al.	
	155	US20060168446	07-27-2006	Ahonen; Pasi; et al.	
	156	US20060171540	08-03-2006	Lee; Sung-min; et al.	
	157	US20060242412	10-26-2006	Jung; Bae-eun; et al.	

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		Filing Date	2001-08-20	
		First Named Inventor	Hawkes, Philip et al.	
		Art Unit	2439	
		Examiner Name	SIMITOSKI, MICHAEL J	
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		Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)				
	158	EP0636963A2	02-01-1995	IBM [US] et al.		<input type="checkbox"/>
	159	EP0702477A2	03-20-1996	SUN MICROSYSTEMS INC [US] et al.		<input type="checkbox"/>
	160	EP0748058A2	12-11-1996	AT & T CORP [US] et al.		<input type="checkbox"/>
	161	EP0813309A2	12-17-1997	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	162	EP0854618A2	07-22-1998	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	163	EP0924898A1	06-23-1999	INST NAT RECH INF AUTOMAT [FR] et al.		<input type="checkbox"/>
	164	EP0928084A2	07-07-1999	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	165	EP0951198A2	10-20-1999	NEC CORP [JP] et al.		<input type="checkbox"/>
	166	EP1001570A2	05-17-2000	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	167	EP1032150A2	08-30-2000	TRW INC [US] et al.		<input type="checkbox"/>
	168	EP1075123A1	02-07-2001	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	169	EP1098446A2	05-09-2001	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	170	EP1117204A2	07-18-2001	HEWLETT PACKARD CO [US] et al.		<input type="checkbox"/>
	171	EP1185125A1	03-06-2002	NTT DOCOMO INC [JP] et al.		<input type="checkbox"/>
	172	EP1190526A1	3-27-2002	ERICSSON TELEFON AB L M [SE]		
	173	GB2346512A	08-09-2000	NEC CORP [JP] et al.		<input type="checkbox"/>

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			First Named Inventor	Hawkes, Philip et al.	
			Art Unit	2439	
			Examiner Name	IMITOSKI, MICHAEL J	
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		Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)				
	174	JP10063598A	03-06-1998	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	175	JP10200536A	07-31-1998	TOSHIBA CORP et al.		<input type="checkbox"/>
	176	JP11313059A	11-09-1999	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	177	JP11355460A	12-24-1999	MEIDENSHA ELECTRIC MFG CO LTD et al.		<input type="checkbox"/>
	178	JP2000165258A	06-16-2000	YRP IDO TSUSHIN KIBAN GIJUTSU; TOSHIBA CORP et al.		<input type="checkbox"/>
	179	JP2001177513A	06-29-2001	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	180	JP2000137551A	05-16-2000	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	181	RU2073913C1	02-20-1997	KONINKL PHILIPS ELECTRONICS NV [NL] et al.		<input type="checkbox"/>
	182	RU2077113C1	04-10-1997	VOENNAYA AKADEMIYA SVYAZI [KZ] et al.		<input type="checkbox"/>
	183	RU2091983C1	09-27-1997	CHIZHUKHIN GENNADIJ N [SU] et al.		<input type="checkbox"/>
	184	RU2115249C1	07-10-1998	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	185	RU2147792C1	04-20-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	186	RU2187205C2	08-10-2002	SAMSUNG ELECTRONICS CO LTD [KR] et al.		<input type="checkbox"/>
	187	WO0008883A1	02-17-2000	ERICSSON INC [US] et al.		<input type="checkbox"/>
	188	WO0013356A1	03-09-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	189	WO0057601A1	09-28-2000	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>

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			Examiner Name	IMITOSKI, MICHAEL J	
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		Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)				
	190	WO0062547A1	10-19-2000	OPENTV INC [US] et al.		<input type="checkbox"/>
	191	WO0076125A1	12-14-2000	NORTEL NETWORKS LTD [CA] et al.		<input type="checkbox"/>
	192	WO0078008A1	12-21-2000	SSH COMM SECURITY LTD [FI] et al.		<input type="checkbox"/>
	193	WO0101630A1	01-04-2001	ERICSSON TELEFON AB L M [SE] et al.		<input type="checkbox"/>
	194	WO02054663A2	07-11-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	195	WO0247407A2	06-13-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	196	WO8607224A1	12-04-1986	SCIENTIFIC ATLANTA [US] et al.		<input type="checkbox"/>
	197	WO9715161A1	04-24-1997	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	198	WO9825422A1	06-11-1998	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	199	WO9959355A2	11-18-1999	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>
	200	WO03063418A1	07-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>
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	201	"Functional Model of a Conditional Access System", EBU Review - Technical European Broadcasting Union, Bussels, BE, No.266; Dec 21, 1995; pgs 64-77; XP000559450.		
	202	"TIA/EIA-IS-95-B Mobile Station-Base Station Compatibility Standard For Dual-Mode Wideband Spread Spectrum Cellular System." (IS-95 STANDARD).		
	203	010497 International Search Report PCT/US02/009835, ISA, EPO, 7/8/02.		
	204	3G TS 25.213 V4.1.0 (2001-06) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Spreading and Modulation (FDD)(Release 4). 3GPP TS 25.211 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels Onto Physical Channels (FDD)(Release 4).		
	205	3GPP TS 25.212 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Multiplexing and Channel Coding (FDD)(Release 4).		
	206	3GPP TS 25.214 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD)(Release 4).		
	207	3GPP2 C.S0002-0 Version 1.0 (1999-07) 3rd Generation Partnership Project 2 "3GPP2" Physical Layer Standard for cdma2000 Spread Spectrum Systems.		
	208	AL-TAWIL, "A New Authentication Protocol for Roaming Users in GSM", Proceedings for IEEE International Symposium on Computers and Communication, 6 July 1999, pp 93-99.		
	209	B.G. MARCHENT et al. "Intelligent Control of Mobile Multimedia Systems" Vehicular Technology Conference 1998. VTC 98, 48th IEEE Ottawa, Canada, May 18-21 1998; New York, USA, May 18, 1998, pages 2047-2051.		
	210	BACCELLI, F et al.: "Self Organizing Hierarchical Multicast Trees And Their Optimization," INFOCOM 1999. IEEE, 1081-1089 (21 MARCH 1999).		
	211	BORMANN, et al., "Robust Header Compression (ROHC)," Internet Engineering Task Force IETF Draft, 1-145, Feb. 26, 2001.		
	212	BROWN: "The Electronic Post It Note Model for Mobile Computing Applications," Computing Lab, The University, Canterbury, Kent, The Institution of Electrical Engineers, IEEE, Savoy Place, London, WC2R 0BL, UK.		
	213	ESTRIN, et al., "The Protocol Independent Multicast-Sparse Mode (PIM-SM)," RFC 2362, June 1998.		
	214			

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	215	ETSI: "Universal Mobile Telecommunications Systems (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Stage 1, 3GPP TS 22.146 version 5.2.0 Release 5", ETSI TS 22.146 v5.2.0, pages 1-15, 03/2002.		
	216	GONG, L et al: "Trade-Offs In Routing Private Multicast Traffic," Global Telecommunications Conference, 1995. IEEE, 2124-2128 (13 NOV 1995).		
	217	GREG Rose et al., "The Secure Real Time Transport Protocol," Internet Draft, February 2001, pages 1-26.		
	218	KALLIOKULJU J.: "User Plane Architecture of 3rd Generation Mobile Telecommunication Network," IEEE International Conference on Networks, ICON, Proceedings on Networks (ICON'99), 28 September 1999 (1999-09-28) - 1 October 1999 (1999-10-01), pgs. 270-278, XP010354980.		
	219	LIN, et al: "A Multicast Routing Protocol for Multihop Wireless Networks," Dept. of Computer Science and Information Engineering, Chung Cheng University, Taiwan, Global Telecommunications Conference, XP010373304.		
	220	LOU et al., "Progressive Video Streaming Over 2G and 3G Wireless Systems," Proceedings Of The 11TH IEEE International Symposium On Personal Indoor And Mobile Radio Communications, vol.2, September 18-21, 2000, London, pages 1550-1554.		
	221	MACQ. BENOIT M et al. "Cryptography For Digital TV Broadcasting", 1995 IEEE.		
	222	MENEZES, A et al.: "Handbook of Applied Cryptography" 1997, CRC Press LIC, USA XP002248262 Pgs. 497-500, 551-552.		
	223	MENEZES, A et al.: "Handbook of Applied Cryptography," Chapter 13, pp. 543-590, CRC Press (1996).		
	224	MIYAZAKI: "A Stream-data Multicast Protocol Using IP Unicast Address" Technical Report of IEICE, IN2001-9, May 11, 2001.		
	225	MOOIJ, W.: "Advances in Conditional Access Technology", IEEE, pp. 461-464 (1997-09).		
	226	MOY, "Multicast Extensions to OSPF," RFC 1584, March 1994.		
	227	PAUL K et al: "A Stability-Based Distributed Routing Mechanism To Support Unicast And Multicast Routing In Ad Hoc Wireless Network" Computer Communications, Elsevier Science Publishers BV, Amsterdam, NL, VOL. 24, NO. 18, 1 DEC 2001, Pages 1828-1845, XP0043		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	09/933,972	
			Filing Date	2001-08-20	
			First Named Inventor	Hawkes, Philip et al.	
			Art Unit	2439	
			Examiner Name	IMITOSKI, MICHAEL J	
Sheet	14	of	15	Attorney Docket No: 010497	

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	228	SCHNEIER, B.: "Applied Cryptography, Conference Key Distribution and Secret Broadcasting" Second Edition, pp. 520, 523-524, John Wiley & Sons, Inc. XP002248263 (1996).		
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	230	STALLINGS, W.: "Cryptography and network security" 1995, Prentice-Hall, Inc., XP002248261 pgs 402-406, 413-417, 421-424.		
	231	TAKAHASHI: "Prospect of Push type Information Providing Service/Technology," Information Processing, Vol. 39, No. 11, November 15, 1998, p. 1124 - 1131.		
	232	TANENBAUM, ANDREW S.: COMPUTER NETWORKS; SECOND EDITION; PUB 1993 XP2530414.		
	233	TIA/EIA/IS-856 Interim Standard cdma2000 High Rate Packet Data Air Interface Specification (2000-11).		
	234	TIA/EIA/IS-95-A (Revision of TIA/EIA/IS-95) Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System (1995-05).		
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	237	YANG et al: "An Efficient Multicast Delivery Scheme To Support Mobile IP," Database And Expert Systems Applications, 1999. IEEE, 638-88 (1 SEPTEMBER 1999).		
	238	YOU XIAOHU, "D&R Progress On China's 3G Mobile Communications", Telecom Science, VOL. 2, 2001, Pages 11-17.		

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